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ANALYTICAL ABSTRACTS

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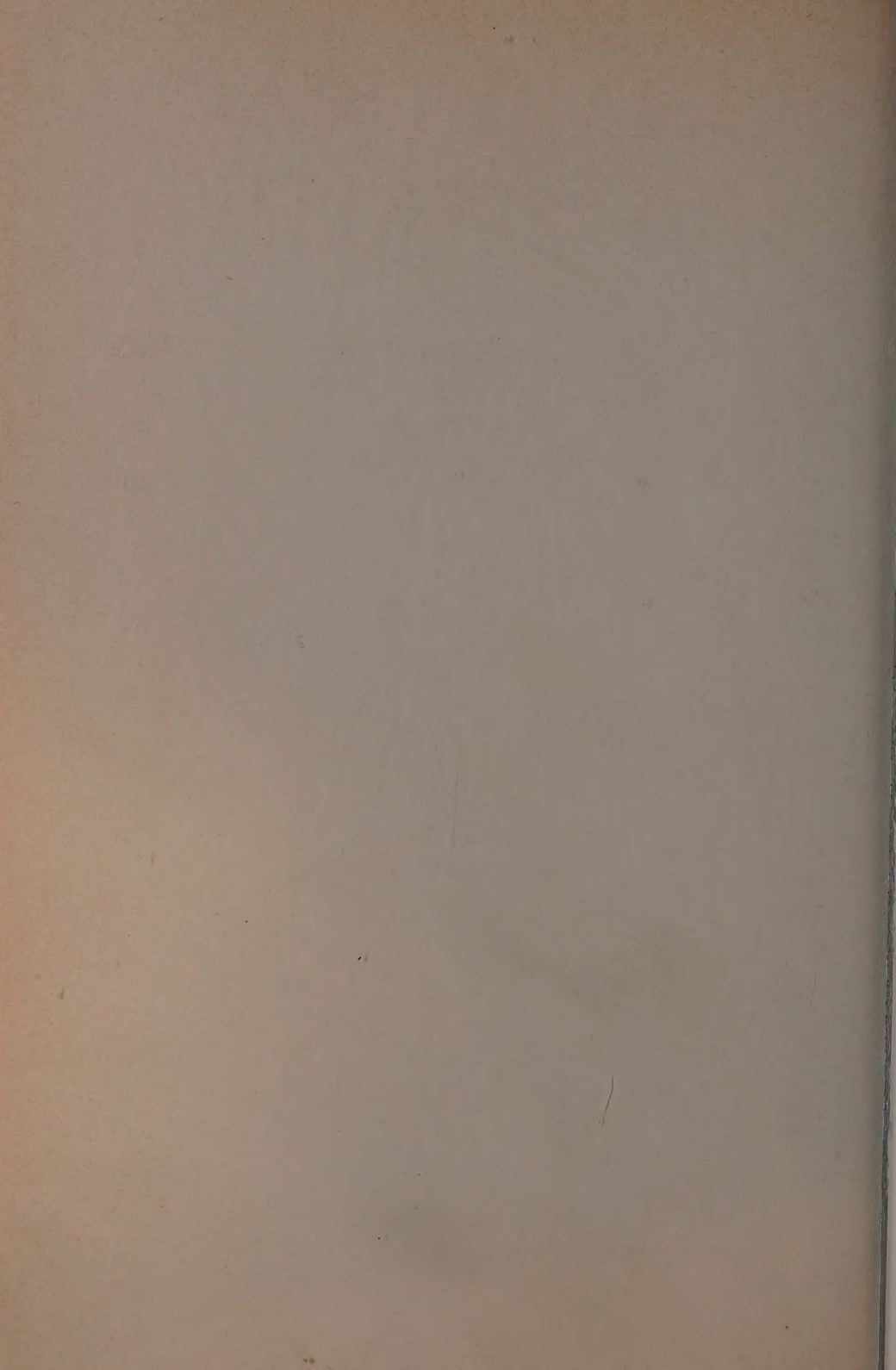
The Society for Analytical Chemistry

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ANALYTICAL ABSTRACTS

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JOURNALS

The following list contains the names of journals (and their abbreviations) from which papers have been abstracted regularly during 1973. Journals that have been omitted are those that contain only an occasional analytical paper, and a number of Russian journals from which translated abstracts have been published through the medium of *Referativnyi Zhurnal*.

The abbreviations, in italics, after the full names of the journals refer to the languages in which the journals are published.

<i>Acta biochim. biophys. hung.</i>	..	..	Acta Biochimica et Biophysica [Eng.]
<i>Acta chem. fenn.</i>	..	..	Acta Chemica Fennica [Eng.]
<i>Acta chem. scand.</i>	..	..	Acta Chemica Scandinavica [Eng.]
<i>Acta chim. hung.</i>	..	..	Acta Chimica Academiae Scientiarum Hungaricae [Eng., Ger.]
<i>Acta pharm. hung.</i>	..	..	Acta Pharmaceutica Hungarica [Hung.]
<i>Acta pharm. jugosl.</i>	..	..	Acta Pharmaceutica Jugoslavica [Serbo-Croat]
<i>Acta pharm. succ.</i>	..	..	Acta Pharmaceutica Suecica [Eng.]
<i>Acta Pol. pharm.</i>	..	..	Acta Poloniae Pharmaceutica [Pol.]
<i>Afinidad</i>	..	..	Afinidad [Span.]
<i>Agric. biol. Chem.</i>	..	..	Agricultural and Biological Chemistry [Tokyo] [Eng.]
<i>AMDEL Bull.</i>	..	..	Bulletin of the Australian Mineral Development Laboratories [Eng.]
<i>Am. ind. Hyg. Ass. J.</i>	..	..	American Industrial Hygiene Association Journal [Eng.]
<i>Am. Miner.</i>	..	..	American Mineralogist [Eng.]
<i>Analisis</i>	..	..	Analisis (formerly <i>Chimie Analytique and Methodes Physiques d'Analyse</i>) [Fr.]
<i>Analyst, Lond.</i>	..	..	Analyst [Eng.]
<i>Analyt. Biochem.</i>	..	..	Analytical Biochemistry [Eng.]
<i>Analyt. Chem.</i>	..	..	Analytical Chemistry [Eng.]
<i>Analytica chim. Acta</i>	..	..	Analytica Chimica Acta [Eng., Fr., Ger.]
<i>Analyt. Lett.</i>	..	..	Analytical Letters [Eng., Fr., Ger.]
<i>An. Assoc. quim. argent.</i>	..	..	Anales de la Asociacion Quimica Argentina [Span.]
<i>An. Bromat.</i>	..	..	Anales de Bromatologia [Span.]
<i>Angew. Chem., int. Edn</i>	..	..	Angewandte Chemie, International Edition [Eng.]
<i>Annali Chim.</i>	..	..	Annali di Chimica [Ital.]
<i>Annali Ist. sup. Sanita</i>	..	..	Annali dell'Istituto Superiore di Sanita [Eng., Fr., Ital.]
<i>Annls Falsif. Expert. chim.</i>	..	..	Annales des Falsifications et de l'Expertise Chimique [Fr.]
<i>Annls pharm. fr.</i>	..	..	Annales Pharmaceutiques Francaises [Fr.]
<i>An. Quim.</i>	..	..	Anales de Quimica de la Real Sociedad Espanola de Fisica y Quimica [Span.]
<i>Antibiotiki</i>	..	..	Antibiotiki [Russ.]
<i>Appl. Optics</i>	..	..	Applied Optics [Eng.]
<i>Appl. Spectrosc.</i>	..	..	Applied Spectroscopy [Eng.]
<i>Arch. EisenhuetWes.</i>	..	..	Archiv fuer das Eisenhuettenwesen [Ger.]
<i>Arch. Pharm., Berl.</i>	..	..	Archiv der Pharmazie (und Berichte der Deutschen pharmazeutischen Gesellschaft) [Ger.]
<i>Ark. Kemi</i>	..	..	Arkiv foer Kemi [Eng.]
<i>Armyan. khim. Zh.</i>	..	..	Armyanskii Khimicheskii Zhurnal [Russ.]
<i>Arzneimittel-Forsch.</i>	..	..	Arzneimittel-Forschung [Ger.]
<i>Atom. Absorp. Newsl.</i>	..	..	Atomic Absorption Newsletter [Eng.]
<i>Aust. J. Chem.</i>	..	..	Australian Journal of Chemistry [Eng.]
<i>Azerb. khim. Zh.</i>	..	..	Azerbaidzhanskii Khimicheskii Zhurnal [Russ.]
<i>Beitr. Tabakforsch.</i>	..	..	Beitraege zur Tabakforschung [Eng., Ger.]
<i>Biochem. biophys. Res. Commun.</i>	..	..	Biochemical and Biophysical Research Communications [Eng.]
<i>Biochem. J.</i>	..	..	Biochemical Journal [Eng.]
<i>Biochem. Med.</i>	..	..	Biochemical Medicine [Eng.]
<i>Biochim. biophys. Acta</i>	..	..	Biochimica et Biophysica Acta [Eng.]
<i>Biochimie</i>	..	..	Biochimie (formerly <i>Bulletin de la Societe de Chimie Biologique</i>) [Eng., Fr.]
<i>Biokhimiya</i>	..	..	Biokhimiya [Russ.]
<i>B.I.S.R.A. open Rep.</i>	..	..	B.I.S.R.A. Open Report [Eng.]
<i>Boll. Soc. ital. Biol. sper.</i>	..	..	Bollettino della Societa Italiana di Biologia Sperimentale [Ital.]
<i>Brauwissenschaft</i>	..	..	Brauwissenschaft [Ger.]
<i>Br. med. J.</i>	..	..	British Medical Journal [Eng.]
<i>Bull. chem. Soc. Japan</i>	..	..	Bulletin of the Chemical Society of Japan [Eng.]
<i>Bull. environ. Contam. Toxic.</i>	..	..	Bulletin of Environmental Contamination and Toxicology [Eng.]
<i>Bull. Narcot.</i>	..	..	Bulletin on Narcotics [Eng.]
<i>Bull. Soc. chim. Fr.</i>	..	..	Bulletin de la Societe Chimique de France [Fr.]
<i>Can. J. Biochem.</i>	..	..	Canadian Journal of Biochemistry [Eng.]
<i>Can. J. Chem.</i>	..	..	Canadian Journal of Chemistry [Eng., Fr.]
<i>Can. J. pharm. Sci.</i>	..	..	Canadian Journal of Pharmaceutical Science [Eng.]
<i>Can. J. Spectrosc.</i>	..	..	Canadian Journal of Spectroscopy [Eng., Fr.]
<i>Carbohydr. Res.</i>	..	..	Carbohydrate Research [Eng., Ger.]

Cereal Chem.	Cereal Chemistry [Eng.]
Cereal Sci. Today	Cereal Science Today [Eng.]
Chemia analit.	Chemia Analityczna [Eng., Fr., Ger., Pol.]
Chemické Listy	Chemicke Listy [Czech]
Chemicke Zvesti	Chemicke Zvesti [Eng., Fr., Ger., Russ.]
Chemický Prum.	Chemický Prumysl [Czech]
Chemie-Ingr-Tech.	Chemie-Ingenieur-Technik [Ger.]
Chemikerzeitung—chem. Appar.	Chemiker-Zeitung—Chemische Apparatur [Ger.]
Chemistry, Taipei	Chemistry, Taipei [Chin.]
Chem. pharm. Bull., Tokyo	Chemical & Pharmaceutical Bulletin [Eng., Ger.]
Chem. Tech., Berl.	Chemische Technik [Ger.]
Chemý Br.	Chemistry in Britain [Eng.]
Chemý Ind.	Chemistry and Industry [Eng.]
Chim. analyt.	Chimie Analytique (replaced by Analysis) [Fr.]
Chimia	Chimia [Eng., Fr., Ger.]
Chimica Ind., Milano	Chimica e l'Industria [Ital.]
Chromatographia	Chromatographia [Eng., Fr., Ger.]
Chromat. Rev.	Chromatographic Reviews [Eng.]
Clin. Chem.	Clinical Chemistry [Eng.]
Clinica chim. Acta	Clinica Chimica Acta [Eng., Fr., Ger.]
Colln Czech. chem. Commun.	Collection of Czechoslovak Chemical Communications [Eng., Ger.]
Column	Column: Pye Unicam Chromatography Bulletin [Eng.]
C. r. Acad. bulg. Sci.	Comptes Rendus de l'Academie Bulgare des Sciences [Eng., Fr., Ger.]
CRC crit. Rev. analyt. Chem.	CRC Critical Reviews of Analytical Chemistry [Eng.]
C. r. hebđ. Seanc. Acad. Sci., Paris	Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences [Fr.]
Croat. chem. Acta	Croatica Chemica Acta [Eng., Ger.]
Csika Farm.	Ceskoslovenska Farmacie [Czech, Slovak]
Curr. Sci.	Current Science [Eng.]
CZ Chemie-Tech.	CZ Chemie-Technik [Ger.]
Dissnes pharm. pharmac.	Dissertationes Pharmaceuticae et Pharmacologicae [Eng.]
Dokl. Akad. Nauk SSSR	Doklady Akademii Nauk SSSR [Russ.]
Dokl. Akad. Nauk tadzhik. SSR	Doklady Akademii Nauk Tadzhikskoi SSR [Russ.]
Dokl. Akad. Nauk uzbek. SSR	Doklady Akademii Nauk Uzbekskoi SSR [Russ.]
Dt. ApothZtg	Deutsche Apotheker-Zeitung [Ger.]
Dt. LebensmittelRdsch.	Deutsche Lebensmittel-Rundschau [Ger.]
Eczacilik Bult.	Eczacilik Bulteni [Turk.]
Environ. Sci. Technol.	Environmental Science & Technology [Eng.]
Enzymologia	Enzymologia [Eng.]
Erdoel Kohle Erdgas Petrochem. Brennst.-Chem.	Erdoel und Kohle, Erdgas, Petrochemie vereinigt mit Brennstoff-Chemie [Ger.]
Experientia	Experientia [Eng., Ger.]
Farbe Lack	Farbe und Lack [Ger.]
Pharmaceutický Obz.	Pharmaceutický Obzor [Czech, Slovak]
Farmacja pol.	Farmacja Polska [Pol.]
Farmaco, Ed. prat.	Farmaco, Edizione Pratica [Fr., Ital.]
Farmaco, Ed. scient.	Farmaco, Edizione Scientifica [Eng., Ital.]
Farmatsiya, Mosk.	Farmatsiya, Moskva [Russ., Eng.]
Farmatsiya, Sof.	Farmatsiya Sofiya, [Bulg.]
Faserforsch. TextTech.	Faserforschung und Textiltechnik [Ger.]
Fette Seifen AnstrMittel	Fette, Seifen, Anstrichmittel [Ger.]
Flavour Ind.	Flavour Industry (formerly Perfumery and Essential Oil Record) [Eng.]
Fleischwirtschaft	Fleischwirtschaft [Ger.]
Fuel, Lond.	Fuel [Eng.]
Geochim. cosmochim. Acta	Geochimica et Cosmochimica Acta [Eng.]
Gidrokhim. Mater.	Gidrokhimicheskie Materialy [Russ.]
Gig. Sanit.	Gigiena i Sanitariya [Russ.]
G-I-T Fachz. Lab.	Glas-Instrumenten-Technik. Fachzeitschrift fuer das Laboratorium [Eng., Ger.]
Grasas Aceit.	Grasas y Aceites [Span.]
Helv. chim. Acta	Helvetica Chimica Acta [Fr., Ger.]
Herba pol.	Herba Polonica [Pol.]
Hlth Phys.	Health Physics [Eng.]
Hoppe-Seyler's Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift fuer physiologische Chemie [Ger.]
Hutn. Listy	Hutnicke Listy [Czech]
Indian J. appl. Chem.	Indian Journal of Applied Chemistry [Eng.]
Indian J. Chem.	Indian Journal of Chemistry [Eng.]
Indian J. Dairy Sci.	Indian Journal of Dairy Science [Eng.]

<i>Indian J. Pharm.</i>	Indian Journal of Pharmacy [Eng.]
<i>Indian J. Technol.</i>	Indian Journal of Technology [Eng.]
<i>Industrie agr.</i>	Industrie Agrarie [Ital.]
<i>Infeccion Quim. analit. pura apl. Ind.</i>	Informacion de Quimica Analitica, Pura y Aplicada a la Industria [Span.]
<i>Int. J. appl. Radiat. Isotopes</i>	International Journal of Applied Radiation and Isotopes [Eng., Fr., Ger.]
<i>Int. J. environ. analyt. Chem.</i>	International Journal of Environmental Analytical Chemistry [Eng.]
<i>Int. Sug. J.</i>	International Sugar Journal [Eng.]
<i>Isotopenpraxis</i>	Isotopenpraxis [Ger.]
<i>Israel J. Chem.</i>	Israel Journal of Chemistry [Eng.]
<i>Izv. Akad. Nauk beloruss. SSR, Ser. khim. Nauk</i>	Izvestiya Akademii Nauk Belorusskoi SSR, Seriya Khimicheskikh Nauk [Russ.]
<i>Izv. Akad. Nauk kazakh. SSR, Ser. khim.</i>	Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Khimicheskaya [Russ.]
<i>Izv. Akad. Nauk latv. SSR, Ser. khim.</i>	Izvestiya Akademii Nauk Latviiskoi SSR, Seriya Khimicheskaya [Russ.]
<i>Izv. Akad. Nauk SSSR, Ser. khim.</i>	Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya [Russ.]
<i>Izv. sib. Otdel. Akad. Nauk SSSR</i>	Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR [Russ.]
<i>Izv. tomsk. politekh. Inst.</i>	Izvestiya Tomskogo Politeknicheskogo Instituta imeni S. M. Kirova [Russ.]
<i>Izv. vyssh. ucheb. Zaved., Khim. khim. Tekhnol.</i>	Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya [Russ.]
<i>J. agric. Fd Chem.</i>	Journal of Agricultural and Food Chemistry [Eng.]
<i>J. Air Pollut. Control Ass.</i>	Journal of the Air Pollution Control Association [Eng.]
<i>J. Am. Oil Chem. Soc.</i>	Journal of the American Oil Chemists' Society [Eng.]
<i>Japan Analyst</i>	Japan Analyst [Jap.]
<i>J. appl. Chem. Biotechnol.</i>	Journal of Applied Chemistry and Biotechnology [Eng.]
<i>J. appl. Phys.</i>	Journal of Applied Physics [Eng.]
<i>J. appl. Polym. Sci.</i>	Journal of Applied Polymer Science [Eng.]
<i>J. Ass. off. analyt. Chem.</i>	Journal of the Association of Official Analytical Chemists [Eng.]
<i>J. Ass. publ. Analysts</i>	Journal of the Association of Public Analysts [Eng.]
<i>J. chem. Soc., Dalton Trans.</i>	Journal of the Chemical Society, Dalton Transactions [Eng.]
<i>J. chem. Soc., Faraday Trans. I</i>	Journal of the Chemical Society, Faraday Transactions I [Eng.]
<i>J. chem. Soc., Perkin Trans. I</i>	Journal of the Chemical Society, Perkin Transactions I [Eng.]
<i>J. chem. Soc., Perkin Trans. II</i>	Journal of the Chemical Society, Perkin Transactions II [Eng.]
<i>J. chem. Soc. Japan, pure Chem. Sect.</i>	Journal of the Chemical Society of Japan, Pure Chemistry Section [Jap.]
<i>J. Chem. un. Arab Repub.</i>	Journal of Chemistry of the United Arab Republic [Eng.]
<i>J. Chromat.</i>	Journal of Chromatography [Eng., Fr., Ger.]
<i>J. chromat. Sci.</i>	Journal of Chromatographic Science [Eng.]
<i>J. clin. Path.</i>	Journal of Clinical Pathology [Eng.]
<i>J. Dairy Res.</i>	Journal of Dairy Research [Eng.]
<i>J. Dairy Sci.</i>	Journal of Dairy Science [Eng.]
<i>J. electroanalyt. Chem.</i>	Journal of Electroanalytical Chemistry and Interfacial Electrochemistry [Eng., Ger.]
<i>J. electrochem. Soc.</i>	Journal of the Electrochemical Society [New York] [Eng.]
<i>J. Fd Sci.</i>	Journal of Food Science [Eng.]
<i>J. forens. Sci.</i>	Journal of Forensic Sciences, U.S.A. [Eng.]
<i>J. forens. Sci. Soc.</i>	Journal of the Forensic Science Society, U.K. [Eng.]
<i>J. Indian chem. Soc.</i>	Journal of the Indian Chemical Society [Eng.]
<i>J. inorg. nucl. Chem.</i>	Journal of Inorganic & Nuclear Chemistry [Eng.]
<i>J. Inst. Brew.</i>	Journal of the Institute of Brewing [Eng.] [Eng.]
<i>J. Inst. Metals</i>	Journal of the Institute of Metals [Eng.]
<i>J. Instn Chem., India</i>	Journal of the Institution of Chemists (India) [Eng.]
<i>J. Inst. Petrol.</i>	Journal of the Institute of Petroleum [Eng.]
<i>J. Iron Steel Inst.</i>	Journal of the Iron and Steel Institute [Eng.]
<i>J. Lab. clin. Med.</i>	Journal of Laboratory and Clinical Medicine [Eng.]
<i>J. less-common Metals</i>	Journal of the Less-Common Metals [Eng.]
<i>J. Lipid Res.</i>	Journal of Lipid Research [Eng.]
<i>J. Paint Technol.</i>	Journal of Paint Technology [Eng.]
<i>J. Pharm. Belg.</i>	Journal de Pharmacie de Belgique [Fr.]
<i>J. Pharm. Pharmac.</i>	Journal of Pharmacy and Pharmacology [Eng.]
<i>J. pharm. Sci.</i>	Journal of Pharmaceutical Sciences [Eng.]
<i>J. Phys. D, appl. Phys.</i>	Journal of Physics D, Applied Physics [Eng., Fr., Ger.]
<i>J. Phys. E, scient. Instrum.</i>	Journal of Physics E, Scientific Instruments [Eng., Fr., Ger.]
<i>J. Polym. Sci. (A, B)</i>	Journal of Polymer Science (Parts A, B) [Eng.]
<i>J. prakt. Chem.</i>	Journal fuer praktische Chemie [Eng., Ger.]
<i>J. radioanalyt. Chem.</i>	Journal of Radioanalytical Chemistry [Eng., Fr., Ger.]
<i>J. Res. natn. Bur. Stand.</i>	Journal of Research of the National Bureau of Standards [Eng.]
<i>J. Sci. Fd Agric.</i>	Journal of the Science of Food and Agriculture [Eng.]
<i>J. Soc. Leath. Trades Chem.</i>	Journal of the Society of Leather Trades' Chemists [Eng.]
<i>J. Wat. Pollut. Control Fed.</i>	Journal of the Water Pollution Control Federation [Eng.]

<i>Kemija Ind.</i>	<i>Kemija u Industriji</i> [Serbo-Croat]
<i>Klin. Wschr.</i>	<i>Klinische Wochenschrift</i> [Ger.]
<i>Lab. Pract.</i>	<i>Laboratory Practice</i> [Eng.]
<i>Lait</i>	<i>Lait</i> [Fr.]
<i>Lancet</i>	<i>Lancet</i> [Eng.]
<i>Latv. PSR Zinat. Akad. Vest., Kim. Ser.</i> see under	<i>Latvijas PSR Zinatnu Akademija Vestis, Kimija Serija</i> see under
<i>Izv. Akad. Nauk latv. SSR, Ser. khim.</i>	<i>Izvestiya Akademii Nauk Latvinskoi SSR, Seriya Khimicheskaya</i> [Russ.]
<i>Limnol. Oceanogr.</i>	<i>Limnology and Oceanography</i> [Eng.]
<i>Lipids</i>	<i>Lipids</i> [Eng.]
<i>Magy. kem. Foly.</i>	<i>Magyar Kemiai Folyoirat</i> [Hung.]
<i>Magy. Kem. Lap.</i>	<i>Magyar Kemikusok Lapja</i> [Hung.]
<i>Makromolek. Chem.</i>	<i>Makromolekulare Chemie</i> [Ger.]
<i>Meddr norsk farm. Selsk.</i>	<i>Meddelelser fra Norsk Farmaceutisk Selskap</i> [Eng., Ger.]
<i>Medicine Sci. Law</i>	<i>Medicine, Science and the Law</i> [Eng.]
<i>Med. Lab. Technol.</i>	<i>Medical Laboratory Technology</i> [Eng.]
<i>Metal Finish.</i>	<i>Metal Finishing</i> [Eng.]
<i>Metalloberflaeche</i>	<i>Metalloberflaeche</i> [Ger.]
<i>Metallurgia ital.</i>	<i>Metallurgia Italiana</i> [Ital.]
<i>Metallurgia Metal Form.</i>	<i>Metallurgia, and Metal Forming (formerly Metallurgia, Manchester)</i>
<i>Meth. Phys. Analyse</i>	<i>Methodes Physiques d'Analyse (replaced by Analysis)</i> [Fr.]
<i>Microchem. J.</i>	<i>Microchemical Journal</i> [Eng.]
<i>Mikrochim. Acta</i>	<i>Mikrochimica Acta</i> [Eng., Fr., Ger.]
<i>Mineralog. Mag.</i>	<i>Mineralogical Magazine and Journal of the Mineralogical Society</i> [Eng.]
<i>Mitt. Geb. Lebensmittelunters. u. Hyg.</i>	<i>Mitteilungen aus dem Gebiete der Lebensmitteluntersuchung und Hygiene</i> [Ger.]
<i>Mschr. Brau.</i>	<i>Monatsschrift fuer Brauerei</i> [Ger.]
<i>Nahrung</i>	<i>Nahrung</i> [Ger.]
<i>Nature, Lond.</i>	<i>Nature</i> [Eng.]
<i>Naturwissenschaften</i>	<i>Naturwissenschaften</i> [Eng., Ger.]
<i>Nauch. Trudy tashkent. Univ.</i>	<i>Nauchnye Trudy Tashkentskogo Universitet</i> [Russ.]
<i>Neftekhimiya</i>	<i>Neftekhimiya</i> [Russ.]
<i>Neth. Milk Dairy J.</i>	<i>Netherlands Milk and Dairy Journal (English translation of Nederlandsch Melk- en Zuiveltijdschrift)</i>
<i>Nucl. Instrum. Meth.</i>	<i>Nuclear Instruments and Methods</i> [Eng.]
<i>Nucl. Technol.</i>	<i>Nuclear Technology</i> [Eng.]
<i>Optics Spectrosc., N.Y. [Optika Spektrosk.]</i>	<i>Optics and Spectroscopy (English translation of Optika i Spektroskopiya)</i>
<i>Periodica polytech. chem. Engng</i>	<i>Periodica Polytechnica, Chemical Engineering</i> [Eng., Ger.]
<i>Pestic. Sci.</i>	<i>Pesticide Science</i> [Eng.]
<i>Pharm. Acta Helv.</i>	<i>Pharmaceutica Acta Helvetiae</i> [Eng., Fr., Ger.]
<i>Pharmazie</i>	<i>Pharmazie</i> [Ger.]
<i>Pharm. J.</i>	<i>Pharmaceutical Journal</i> [Eng.]
<i>Pharm. Weekbl. Ned.</i>	<i>Pharmaceutisch Weekblad voor Nederland</i> [Dutch, Eng., Ger.]
<i>Planta med.</i>	<i>Planta Medica</i> [Ger.]
<i>Plaste Kautsch.</i>	<i>Plaste und Kautschuk</i> [Ger.]
<i>Plast. Massy</i>	<i>Plasticheskie Massy</i> [Russ.]
<i>Polimery</i>	<i>Polimery</i> [Pol.]
<i>Powder Technol.</i>	<i>Powder Technology</i> [Eng.]
<i>Proc. Am. Soc. Brew. Chem.</i>	<i>Proceedings. American Society of Brewing Chemists</i> [Eng.]
<i>Proc. Australas. Inst. Min. Metall.</i>	<i>Proceedings of the Australasian Institute of Mining and Metallurgy</i> [Eng.]
<i>Proc. Soc. analyt. Chem.</i>	<i>Proceedings of the Society for Analytical Chemistry</i> [Eng.]
<i>Prof. Pap. U.S. geol. Surv.</i>	<i>Professional Papers. United States Geological Survey</i> [Eng.]
<i>Prum. Potravin</i>	<i>Prumysl Potravin</i> [Czech, Slovak]
<i>Pure appl. Chem.</i>	<i>Pure and Applied Chemistry</i> [Eng., Fr., Ger.]
<i>Pyrethrum Post</i>	<i>Pyrethrum Post</i> [Eng., Fr.]
<i>Radiochem. radioanalyt. Lett.</i>	<i>Radiochemical and Radioanalytical Letters</i> [Eng.]
<i>Radiochim. Acta</i>	<i>Radiochimica Acta</i> [Eng., Fr., Ger.]
<i>Radiokhimiya</i>	<i>Radiokhimiya</i> [Russ.]
<i>Rapp. CEA</i>	<i>Rapport. Commissariat a l'Energie Atomique</i> [Fr.]
<i>Rep. atom. Energy Commn U.S.</i>	<i>Report. Atomic Energy Commission, United States</i> [Eng.]
<i>Rep. Invest. U.S. Bur. Mines</i>	<i>Report of Investigations. United States Bureau of Mines</i> [Eng.]
<i>Rep. natn. Inst. Metall.</i>	<i>Report. National Institute for Metallurgy</i> [Eng.]
<i>Rep. U.K. atom. Energy Auth.</i>	<i>Report. United Kingdom Atomic Energy Authority</i> [Eng.]
<i>Rev. Coal Tar Technol.</i>	<i>Review of Coal Tar Technology</i> [Eng.]
<i>Rev. scient. Instrum.</i>	<i>Review of Scientific Instruments</i> [Eng.]
<i>Revta Asoc. bioquim. argent.</i>	<i>Revista de la Asociacion Bioquimica Argentina</i> [Span.]

<i>Revta Chim.</i>	Revista de Chimie [Rom.]
<i>Revta Farm. Bioquim. Univ. S Paulo</i> ..	Revista de Farmacia e Bioquimica da Universidade de Sao Paulo [Port.]
<i>Revta port. Quim.</i>	Revista Portuguesa de Quimica [Port., Span.]
<i>Revue roum. Biochim.</i>	Revue Roumaine de Biochimie [Fr.]
<i>Revue roum. Chim.</i>	Revue Roumaine de Chimie [Eng., Fr., Ger.]
<i>Riv. Combust.</i>	Rivista dei Combustibili [Ital.]
<i>Riv. ital. Sostanze grasse</i>	Rivista Italiana delle Sostanze Grasse [Ital.]
<i>Roczn. Chem.</i>	Roczniki Chemii [Eng., Fr., Ger., Pol.]
<i>Roczn. panst. Zakh. Hig.</i>	Roczniki Panstwowego Zakladu Higieny [Pol.]
<i>Scand. J. clin. Lab. Invest.</i>	Scandinavian Journal of Clinical & Laboratory Investigation [Eng.]
<i>Science, N.Y.</i>	Science [Eng.]
<i>Scientia pharm.</i>	Scientia Pharmaceutica [Ger.]
<i>Seprn Sci.</i>	Separation Science [Eng.]
<i>Soil Sci.</i>	Soil Science [Eng.]
<i>Spectrochim. Acta, A</i>	Spectrochimica Acta, Part A [Eng., Fr., Ger.]
<i>Spectrosc. Lett.</i>	Spectroscopy Letters [Eng.]
<i>Spectrovision</i>	Spectrovision [Eng.]
<i>Staub, Reinhalt. Luft</i>	Staub, Reinhaltung der Luft [Ger.]
<i>Steroids</i>	Steroids [Eng.]
<i>Studia Univ. Babes-Bolyai, Ser. Chem.</i> ..	Studia Universitatis Babes-Bolyai, Series Chemia [Rom.]
<i>Studii Cerc. Chim.</i>	Studii si Cercetari de Chimie [Rom.]
<i>Svensk PappTidn.</i>	Svensk Papperstidning [Eng., Ger.]
<i>Talanta</i>	Talanta [Eng., Fr., Ger.]
<i>TAPPI</i>	TAPPI [Journal of the Technical Association of the Pulp and Paper Industry] [Eng.]
<i>Technology, Sindri</i>	Technology [Eng.]
<i>Trans. Instn Min. Metall.</i>	Transactions of the Institution of Mining and Metallurgy [Eng.]
<i>Trib. CEBEDEAU</i>	Tribune de CEBEDEAU [Centre Belge d'Etude et de Documentation des Eaux] [Fr.]
<i>Trudy Khim. khim. Tekhnol. [Gor'kii]</i> ..	Trudy po Khimii i Khimicheskoi Tekhnologii [Russ.]
<i>Trudy mosk. khim-tekhrol. Inst.</i> ..	Trudy Moskovskogo Khimiko-Tekhnologicheskogo Instituta imeni D. I. Mendeleeva [Russ.]
<i>Trudy vses. nauchno-issled. Inst. khim. Reakt.</i>	Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Khimicheskikh Reaktivov [Russ.]
<i>Uchen. Zap. perm. gos. Univ.</i>	Uchenye Zapiski Permskogo Gosudarstvennogo Universiteta imeni M. Gor'kogo [Russ.]
<i>Ukr. khim. Zh.</i>	Ukrains'kyi Khimichnyi Zhurnal [Ukr.]
<i>Uzbek. khim. Zh.</i>	Uzbekskii Khimicheskii Zhurnal [Russ.]
<i>Vest. leningr. gos. Univ., Fiz., Khim.</i> ..	Vestnik Leningradskogo Gosudarstvennogo Universiteta, Fizika, Khimiya [Russ.]
<i>Vest. mosk. gos. Univ., Ser. Khim.</i> ..	Vestnik Moskovskogo Gosudarstvennogo Universiteta, Seriya Khimiya [Russ.]
<i>Wat. Res.</i>	Water Research [Eng.]
<i>Wat. Sewage Wks</i>	Water & Sewage Works [Eng.]
<i>Z. analyt. Chem.</i>	Zeitschrift fuer analytische Chemie [Eng., Ger.]
<i>Z. anorg. allg. Chem.</i>	Zeitschrift fuer anorganische und allgemeine Chemie [Ger.]
<i>Zav. Lab.</i>	Zavodskaya Laboratoriya [Russ.]
<i>Z. Chemie, Lpz.</i>	Zeitschrift fuer Chemie [Ger.]
<i>Zentralbl. Pharm., Pharmakother. u. Lab.-diagnostik</i>	Zentralblatt fuer Pharmazie, Pharmakotherapie und Laboratoriums-diagnostik [Ger.]
<i>Zh. analit. Khim.</i>	Zhurnal Analiticheskoi Khimii [Russ.]
<i>Zh. obshch. Khim.</i>	Zhurnal Obshchei Khimii [Russ.]
<i>Zh. prikl. Khim., Leningr.</i>	Zhurnal Prikladnoi Khimii [Russ.]
<i>Zh. prikl. Spektrosk.</i>	Zhurnal Prikladnoi Spektroskopii [Russ.]
<i>Z. klin. Chem. klin. Biochem.</i>	Zeitschrift fuer klinische Chemie und klinische Biochemie [Eng., Ger.]
<i>Z. Lebensmittelunters. u. -Forsch.</i> ..	Zeitschrift fuer Lebensmittel-Untersuchung und -Forschung [Eng., Ger.]
<i>Z. med. Labortech.</i>	Zeitschrift fuer medizinische Labortechnik [Ger.]

ACKNOWLEDGEMENTS

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Referativnyi Zhurnal, Khimiya, Section 19GD
Water Pollution Abstracts
Welwyn Hall Research Association Abstracts
World Aluminum Abstracts
World Surface Coatings Abstracts
World Textile Abstracts
Zinc Abstracts

ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 13, 1966

Abstract

No.	Line
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2319	2 for G. Cuihandu read G. Ciuhandu
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The appropriate modifications should be made to the Author Index for Vol. 13, 1966.

VOL. 15, 1968

Index, p. 22, column 1, line 61, for **Ali, S. I.** read **Ali, S. L.**

VOL. 17, 1969

Abstract

No.	Line
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2552	15 for 0.03 μ M read 0.03 μ mole
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VOL. 18, 1970

Abstract

No.	Line
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432	2 for H. Stürchen-Kirchner read H. Stübchen-Kirchner
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The appropriate modifications should be made to the Author Index for Vol. 18, 1970.

VOL. 20, 1971

Abstract

No.	Line
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3831	3 delete [acetophenone oxime]
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The appropriate modifications should be made to the Author and Subject Indexes for Vol. 20, 1971.

VOL. 22, 1972

Abstract

No.	Line
-----	------

1386	8 for 827 K read 1373 K
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1386	18 for 927 K read 1473 K
------	--------------------------

1387	10 for 827 K read 1373 K
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1387	13 for 927 K read 1473 K
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1388	8 for 827 K read 1373 K
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VOL. 23, 1972

Index, p. 22, column 1, lines 19 and 20, for 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-2-thione read 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-5-thione

Index, p. 39, column 1, line 2, this line should read mining oxygen in gas mixtures by electromotive

Index, p. 73, column 2, line 39, delete **Komanova, E.**, 2587, and

Index, p. 73, column 2, insert entry **Kovac, Jaroslav.** See **Komanova, E.**, 2587. after entry for **Kovac, J.**

Index, p. 146, column 2, line 53, for **Yamamoto, Yoroku**; read **Yamamoto, Yuroko**; and transpose this entry to follow the entry for **Yamamoto, Yoshiko**.

Index, p. 147, column 2, line 31, this line should read **Yusa, Y.** See **Ishikawa, K.**, 868.

Index, p. 196, column 1, line 74, for 2934 read 2943

Index, p. 208, column 2, lines 42 and 43, for 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-2-thione read 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-5-thione

Index, p. 245, column 2, line 2, for 293 read 2935

Index, p. 246, column 1, line 34, this line should read **thio**-*m*-tolyl ester, see *Nemacur*

Index, p. 256, column 2, lines 41 and 42, for 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-2-thione read 2-mercapto-3-(2-naphthyl)-1,3,4-thiadiazoline-5-thione

VOL. 23, 1972

Abstract

No.	Line	
161	2, 3	for {benzo[<i>b</i>]thienyltrifluoroacetone} read {1-(2-benzo[<i>b</i>]thienyl)-4,4,4-trifluorobutane-1,3-dione}
1299	4	for 2-thione read 5-thione
4126	3	for Zadetzky, Sandor; read Zadeczky, Sandor;

The appropriate modifications should be made to the Author Index for Vol. 23, 1972.

VOL. 24, 1973

Abstract

No.	Line	
132	6, 7	for colorimeter read calorimeter
244	1	Insert Aminoplasts. I. before Silylation
263	7	for $^{28}\text{Al}(\text{n},\gamma)^{28}\text{Al}$ read $^{27}\text{Al}(\text{n},\gamma)^{28}\text{Al}$
554	13	for in read is
782	4	for Lihareva, N. read Likhareva, N.
823	4	for Rozovksii, G. I. read Rozovskii, G. I.
876	3	for Levitskas, E. read Levickas, E.
898	2	delete liquid
1114	10	insert) after cephalixin
1306	2	for Ahlstrom, D. H. read Ahlstrom, D. H.
1459	2	for Bilbok, H. read Vilbok, H.
1696	13	insert 5,5'-dione soln. in pyridine and Brij 35 in H_2O before (2:1)
1780	11	for MnCl_2 read MnCl_2
1845	13	for acetrioate read acetrizoate
1904	10, 11	for 4-(1-carbamoyl-1-methylethylamino)-2-chloro-6-ethylamino-1,3,5-triazine read 4-(1-carbamoyl-1-methylethylamino)-2-chloro-6-ethylamino-1,3,5-triazine
2130	14, 15, 18, 19	for propane-1,2-diol read 2-methoxyethanol
2176	5, 16	for Rh read Re
2236	21	delete complete line
2783	18	for microline read microcline
2787	6	this line should read soln. (optimum pH = 1) can be selectively titrated
2895	13	for Zn read Sb
3083	7	for 23 read 24
2988	8	for dextran 4 read dextran 40
3545	6	for 140-147 read 146-147
3597	13	for absorption read emission
3706	3	for Ibrahim, El-Sabai A. read El-Sabai, A. Ibrahim
3744	1	for D.A.B. VIII : read D.A.B. VII :

ABBREVIATIONS AND SYMBOLS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

adenosine 5'-monophosphate	AMP	millilitre	ml
adenosine 5'-pyrophosphate	ADP	millimetre	mm
adenosine 5'-triphosphate	ATP	millimolar	mM
alternating current	a.c.	millivolt	mV
ampere	amp.	minute (time)	min.
Ångström unit	Å	molar (concentration)	M
approximate, -ly	approx.	molar extinction coefficient	ϵ
aqueous	aq.	molecul-e, -ar	mol.
boiling-point	b.p.	nanogram	ng
centimetre	cm	nanometre (not millimicron)	nm (not $m\mu$)
coefficient	coeff.	nicotinamide-adenine dinucleotide (oxidised form)	NAD ⁺
Colour Index (3rd Edition)	C.I.	nicotinamide-adenine dinucleotide (reduced form)	NADH
concentrated	conc.	normal (concentration)	N
concentration	concn.	nuclear magnetic resonance	n.m.r.
constant (as adjective)	const.	optical rotation	α
crystalline	} cryst.	parts per million	p.p.m.
crystallised		per cent.	%
curie	Ci	per cent. (vol. in vol.)	% (v/v)
current density	c.d.	per cent. (wt. in vol.)	% (w/v)
density, relative	d	per cent. (wt. in wt.)	% (w/w)
deoxyribonucleic acid	DNA	poly(tetrafluoroethylene)	PTFE
diameter, inside	i.d.	potential difference	p.d.
diameter, outside	o.d.	precipitate (as a noun)	ppt.
differential thermal analysis	d.t.a.	precipitated	pptd.
dilute (as adjective)	dil.	precipitating	pptg.
direct current	d.c.	precipitation	pptn.
electron spin resonance	e.s.r.	preparation	prep.
electron volt	eV	recrystallised	recryst.
equivalent	equiv.	refractive index	n_λ
ethylenediaminetetra-acetate	EDTA	relative band speed	R_F
gas-liquid chromatography	g.l.c.	relative humidity	r.h.
gas-solid chromatography	g.s.c.	revolutions per minute	r.p.m.
gram	g	ribonucleic acid	RNA
gram-molecule	mole	saponification value	sap. val.
half-wave potential	$E_{\frac{1}{2}}$	saturated (as adjective)	satd.
hertz	Hz	saturated calomel electrode	S.C.E.
hour	hr.	second (time)	sec.
infra-red	i.r.	soluble	sol.
insoluble	insol.	solution	soln.
international unit	i.u.	specific rotation	$[\alpha]_\lambda^t$
ionic strength	I	square centimetre	sq. cm
kilogram	kg	standard temp. and pressure	s.t.p.
kilovolt	kV	thin-layer chromatography	t.l.c.
kilowatt	kW	ultra-violet	u.v.
mass spectrometry	m.s.	unit of pressure (mm Hg)	torr
maxim-um, -a	max.	volt	V
microgram	μg (not γ)	volume	vol.
microlitre	μl	watt	W
micrometre (not micron)	μm (not μ)	wavelength	λ
micromole	μmole	weight	wt.
milliampere	mA		
milli-equivalent	m-equiv.		
milligram	mg		

(continued overleaf)

ABBREVIATIONS AND SYMBOLS

(continued from previous page)

In addition to the symbols listed overleaf, the following may be used in conjunction with numerical values or in mathematical expressions—

greater than	>	of the order of, approximately	\approx
less than	<	equivalent to	■

Abbreviations of journal titles used in the abstracts are, in general, those of the 'World List of Scientific Periodicals' (4th edn, 1964, Butterworths, London), but all diacritical marks are omitted, and the German ä, ö and ü and the Scandinavian ø (or ö) are transliterated as ae, oe, ue and oe, respectively.

The language in which an original paper is written is English unless otherwise specified.

The chemical nomenclature used in the abstracts is that recommended by The Chemical Society ('Handbook for Chemical Society Authors,' The Chemical Society, London, 1961), and may differ from that used in the original articles.

When possible, drugs are specified by their official B.P. or B.P.C. names, or by the Approved Names recommended by the British Pharmacopoeia Commission (8 Bulstrode St., London, W1M 5FT).

The principal Pharmacopoeias are denoted by B.P., U.S.P., or D.A.B., together with the identifying roman numeral or year.

The names given to enzymes are those recommended by the International Union of Biochemistry ('Enzyme Nomenclature,' Elsevier Publishing Co., London, 1965).

Pesticides are named in accordance with the British Standard 1831 : 1969, 'Recommended Common Names for Pesticides' (British Standards Institution, 2 Park St., London, W1A 2BS).

ANALYTICAL ABSTRACTS

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1973

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BY SAMUEL JOHNSON

IN TWO VOLUMES.
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